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m/049/032

facsimile transmittal

To: Lynn Kunzler Fax: 359-3940

From: Arjun Ram Date: 01/08/99

Re: Pages:

CC:

☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

Dear Lynn

I am faxing the information that you requested. Thanks for your assistance.

Arjun

PROPOSED SPECIAL USE PERMIT CONDITIONS

Any and all future use of the Subject Property for concrete or asphalt batch plant operations, whether such use is made by the Applicant, Valley Asphalt, its successors or assigns, or its respective lessees, licensees, employees, independent contractors, or invitees, shall be subject to the following Conditions, which shall operate in addition to the limitations and conditions generally applicable to M&G-1 ("Mining and Grazing") zoned property under the applicable Utah County Zoning Regulations:

1. **Paved Haul Road.** In order to reduce potential noise and dust generated by activities on the Subject Property, the entire length of the main haul road from the main entrance on Highway 6 to the staging area near the pit shall be paved with asphaltic paving and such paving shall be maintained and kept in good repair.

2. **Clean Front Entrance.** That portion of Highway 6 in front of and to either side of the main entrance to the Quarry shall be cleaned of any accumulated dirt or other material on a regular basis, as necessary; however, it is expected that the lengthy paved haul road will serve to clean any accumulated dirt or dust from the tires of trucks leaving the premises.

3. **General Air Quality.** No more than one asphalt plant shall operate at the site at any time. The asphalt plant shall be equipped with a control device such as a baghouse or a scrubber to control particulate matter emissions, including dust. The asphalt plant shall employ counterflow drum technology to help reduce any impact on air quality. The ready-mix concrete plant shall be equipped with baghouses to control particulate matter emissions, including dust. All operations in the pit area, including any unpaved internal haul roads, shall be sprayed with water during actual operation to minimize particulate matter emissions, including dust. Valley Asphalt shall obtain an Approval Order from the Utah Division of Air Quality before commencing operations and shall operate the asphalt plant in compliance with the Approval Order.

4. **Visual & Noise Characteristics.** The proposed asphalt and concrete plants shall be sited in the depression behind the hill that faces Highway 6.

5. **Back-Up Alarms.** Strobe lights will be used as back-up alarms on all vehicles from sunset to sunrise.

6. **Truck Covers.** All asphalt and concrete trucks owned by Valley Asphalt or any other operator and operated on any given day out of the Subject Property will operate on all public roads after exiting the Subject Property in strict compliance with UDOT tarp laws.

7. Water Management. The operations shall not in any way affect any public natural water streams. The water from the processing operations shall be collected in retention ponds and retained on site. The site shall be graded in such a way that the storm water from the pit shall not leave the property boundary.

8. Groundwater. Groundwater shall be protected by building appropriate secondary containment structures around any fuel storage tanks to prevent any leaks from migrating and contaminating the groundwater.

9. Reclamation. A permit shall be obtained from the Utah Division of Oil, Gas, and Mining that addresses reclamation of the mine, including issues such as revegetation, maintaining safe finished slopes, and removal of equipment/structures after completion of mining operations.

10. Response Line. Valley Asphalt will establish, maintain, and publish a toll-free telephone number to which any concerns, questions, grievances, comments, or suggestions concerning overall Quarry operations, including the asphalt and concrete plants, can be submitted by the public. Valley Asphalt shall retain a record of such calls for at least three (3) years, which shall be available for inspection by Utah County; and it will make a reasonable, good-faith effort to respond to any such complaints that do not appear to be frivolous or malicious.

01/14/98

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FAX 9536

D. A. Q.

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State of Utah

DEPARTMENT OF ENVIRONMENTAL QUALITY
DIVISION OF AIR QUALITY

FILE COPY

Michael O. Leavitt
Governor
Dianne R. Nielson, Ph.D.
Executive Director
Ursula K. Trueman
Director

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Salt Lake City, Utah 84114-4820
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(801) 536-4414 T.D.D.

DAQE-1012-97

November 3, 1997

Eugene Hartley
Intermountain Aggregates Corporation
6705 Rime Village Drive, East
Birmingham, Alabama 35216

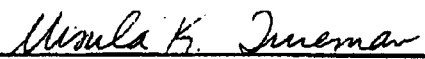
Dear Mr. Hartley:

Re: Approval Order for Operation of the Ekins East Quarry Aggregate Processing Plant
Utah County, CDS-SM, Non-Attainment, NSPS, Title V

The attached document is an Approval Order for the above referenced project.

Future correspondence on this Approval Order should include the engineer's name as well as the DAQE number as shown on the upper right-hand corner of this letter. Please direct any technical questions you may have on this project to Jon Black. He may be reached at (801) 536-4047.

Sincerely,


Ursula K. Trueman, Executive Secretary
Utah Air Quality Board

UKT:DMK:JB:aj

cc: City/County Health Department of Utah County
Mike Owens, EPA Region VIII



140031A

STATE OF UTAH

Department of Environmental Quality

Division of Air Quality

**APPROVAL ORDER FOR OPERATION OF THE EKINS
EAST QUARRY AGGREGATE PROCESSING PLANT**

**Prepared By: DMK Environmental Engineering Inc.
Reviewed By: Jon L. Black, Engineer
801-536-4047**

APPROVAL NUMBER

DAQE-1012-97

Date: November 3, 1997

Source

Intermountain Aggregates Corporation

**Eugene Hartley
205-988-9933**

**Ursula K. Trueman
Executive Secretary
Utah Air Quality Board**

Abstract

Intermountain Aggregates Corporation has proposed to operate an aggregate processing plant at Genola, Utah. The aggregate processing plant is in Utah County, which is non-attainment for PM_{10} . The potential to emit for the proposed source is 12.16 TPY of PM_{10} , 0.92 TPY of SO_2 , 10.84 TPY of NO_x , 5.67 TPY of CO, and 1.50 TPY of VOC. The emissions from the aggregate processing plant will be controlled by wet suppression. The total emissions of PM_{10} , NO_x , and SO_2 are 23.92 TPY, which is less than the 25 TPY threshold for offset requirement in accordance with Section R307-1.3.3.3.B. This plant is not a major source for any pollutant. New Source Performance Standards (NSPS) Subpart OOO (Standards of Performance for Nonmetallic Mineral Processing Plants) applies to this facility. Therefore, Title V will apply to this source. A 30-day public comment period was required for this project.

The above-referenced project has been evaluated and found to be consistent with the requirements of the Utah Administrative Code Rule 307 (UAC R307) and the Utah Air Conservation Act. A 30-day public comment period was held and all comments received were evaluated. The conditions of this AO reflect any changes to the proposed conditions which resulted from the evaluation of the comments received. This air quality AO authorizes the project with the following conditions and failure to comply with any of the conditions may constitute a violation of this order:

General Conditions:

1. This AO applies to the following company:

Corporate Office Location

Intermountain Aggregates Corporation
6705 Rime Village Drive, East
Birmingham, AL 35216
(205) 988-9933
(205) 988-3278 (fax)

The equipment listed below in this AO shall be operated at the following location:

PLANT LOCATION:

1/2 mile south of Hwy 6, 3 miles west of I-15 near Genola, Utah
Universal Transverse Mercator (UTM) Coordinate System:
4,424.8 kilometers Northing; 429.5 kilometers Easting; Zone 12

2. Definitions of terms, abbreviations, and references used in this AO conform to those used in the Utah Administrative Code Rule 307 (UAC R307), and Series 40 of the Code of Federal Regulations (40 CFR). These definitions take precedence unless specifically defined otherwise herein.
3. Intermountain Aggregates Corporation shall install and operate the Ekins East Quarry aggregate processing plant according to the terms and conditions of this AO as requested in the Notice of Intent dated July 17, 1997.

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4. All employees who operate equipment (operator) that produce and/or control emissions to the air shall receive proper training as to their responsibilities in operating that equipment according to all relevant conditions of this AO. The training shall be for all equipment that the operator operates. The equipment shall include all of the equipment listed below in Condition #5 and any other equipment that affects or produces air emissions. This training shall be performed at least once per calendar year and every time this AO is modified or reissued. The operator training shall be held within 60 days of the AO being modified or reissued or a new operator being employed. Records of operator training shall be made available to the executive secretary or executive secretary's representative upon request and the records shall include the two year period prior to the date of the request. This AO shall be made available to all employees who operate the equipment listed in this AO.
5. The approved installations shall consist of the following equipment or equivalent*:
 - A. Vibrating Grizzly Feeder*, (F1), Cedarapids, 52" x 20', 1995
 - B. Feeder*, (F2), Cedarapids, 42" x 20', 1995
 - C. Feeder*, (F2), Syntron, 42" x 60", 1997
 - D. Feeder*, (F3), Syntron, 42" x 60", 1997
 - E. Jaw Crusher*, TelSmith, 30" x 55", 1997
 - F. Cone Crusher*, (CR2), Cedarapids, 54" STD, 1995
 - G. Cone Crusher*, (CR3), Cedarapids, 60", FH, 1995
 - H. Surge Bin*, (B2), Shopbuilt, 15' x 12', 1996
 - I. Screen*, (S2), Hewitt Robbins, 8' x 20', 1991
 - J. Washing Screen*, (S3), Cedarapids, 8" x 20', 1996
 - K. Sand Screw*, (SC1), Kolberg Pioneer, Twin Screws, 1991
 - L. Conveyors and other associated equipment

* Equivalency shall be determined by the executive secretary.

Any future changes or modifications to the equipment and processes approved by this AO that could effect the emissions covered by this AO must be approved in accordance with R307-1-3.1.1, UAC.

6. The executive secretary shall be notified in writing upon start-up of the installation, as an initial compliance inspection is required. Eighteen months from the date of this

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AO the executive secretary shall be notified in writing of the status of construction/installation if construction/installation is not completed. At that time the executive secretary shall require documentation of the continuous construction/installation of the operation and may revoke the AO in accordance with R307-1-3.1.5, UAC. If construction is complete and operation has commenced a notice is not required on the status of the construction/installation.

Limitations and Tests Procedures

7. Visible emissions from the following emission points shall not exceed the following values:
- A. All crushers - 15% opacity
 - B. All screens - 10% opacity
 - C. All conveyor transfer points - 10% opacity
 - D. All diesel engines - 20% opacity
 - E. Conveyor drop points - 20% opacity
 - F. All other points - 20% opacity

Opacity observations of emissions from stationary sources shall be conducted according to 40 CFR 60, Appendix A, Method 9. Visible emissions from mobile sources and intermittent sources shall use procedures similar to Method 9, but the requirement for observations to be made at 15-second intervals over a six-minute period shall not apply. Any time interval with no visible emissions shall not be included.

8. The following production limits shall not be exceeded without prior approval in accordance with R307-1-3.1, UAC:
- A. 1,000 tons/hr of crushing/screening production
 - B. 1,650,000 tons of mined material per rolling 12-month period.
 - C. 3,300 hours per rolling 12-month period

Compliance with the annual limitations shall be determined on a rolling 12-month total. The owner/operator shall calculate a new 12-month total based on the twentieth day of each month using data from the previous 12 months. Records of consumption/production shall be kept for all periods when the plant is in operation. Records of consumption/production, including rolling 12-month totals shall be made available to the executive secretary or executive secretaries representative upon request and shall include a period of two years ending with the date of the request. Production shall be determined by belt scale records or vendor receipts. The records shall be kept on a daily basis. Hours of operation shall be determined by supervisor monitoring and maintaining of an operations log.

9. No more than 1,650,000 tons per year of material shall be blasted for mining. There shall be no more than 50 blasts per year. The area to be blasted shall be soaked with water prior to blasting. Records of blasting which show the number of blasts and the

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weight of material blasted shall be made available to the executive secretary upon request, and shall include a period of two years ending with the date of the request.

10. For drilling of blasting holes a wet collar or a fabric filter shall be used to reduce emissions.

Roads and Fugitive Dust

11. All unpaved roads and other unpaved operational areas that are used by mobile equipment shall be water sprayed and/or chemically treated to control fugitive dust. Treatment shall be of sufficient frequency and quantity to maintain the surface material in a damp/moist condition unless it is below freezing. If chemical treatment is to be used, the plan must be approved by the executive secretary. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation. The records shall include the following items:

- A. Date and time of day treatments were made
- B. Number of treatments made and quantity
- C. Rainfall received, if any, and approximate amount

Records of treatment shall be made available to the executive secretary upon request and shall include a period of two years ending with the date of the request.

12. The haul road limitations shall be:

- A. 0.5 miles in length
- B. 10 miles per hour

These limitations shall not be exceeded without prior approval in accordance with R307-1-3.1, UAC. The haul road speed shall be posted.

13. Control of disturbed or stripped areas is required at all times (24 hours per day every day) for the duration of the project/operation until the area is reclaimed. Records of treatment and/or reclamation shall be kept for all periods when the plant is in operation.
14. Visible fugitive dust emissions from haul-road traffic and mobile equipment in operational areas shall not exceed 20% opacity. Visible emissions determinations for traffic sources shall use procedures similar to Method 9. The normal requirement for observations to be made at 15-second intervals over a six-minute period, however, shall not apply. Six points, distributed along the length of the haul road or in the operational area, shall be chosen by the executive secretary or the executive secretaries representative. An opacity reading shall be made at each point when a vehicle passes the selected points. Opacity readings shall be made $\frac{1}{2}$ vehicle length or greater behind the vehicle and at approximately $\frac{1}{2}$ the height of the vehicle or greater. The accumulated six readings shall be averaged for the compliance value.

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15. Water sprays or chemical dust suppression sprays shall be installed at the following points to control fugitive emissions:

- A. All crushers
- B. All screens
- C. All conveyor transfer points

The sprays shall operate whenever dry conditions warrant or as determined necessary by the executive secretary.

16. The moisture content of the material shall be maintained at a minimum of 4.0% by weight on -40 mesh material. The moisture content shall be tested if directed by the executive secretary using the appropriate American Society of Testing and Methods (ASTM) method.
17. Water shall be added to the mined material to be blasted and/or bulldozed such that before the material is moved, its moisture content, as determined by ASTM Method D-2216 on the -40 mesh portion of the sample, is greater than 4.0% by weight. This moisture content shall be maintained throughout subsequent crushing, screening and conveying circuits. The moisture content shall be tested upon request by the executive secretary using the ASTM method.
18. The storage piles shall be watered to minimize generation of fugitive dusts as dry conditions warrant or as determined necessary by the executive secretary. Records of water and/or chemical treatment shall be kept for all periods when the plant is in operation.
19. The silt content of the haul roads shall not exceed 4.8% by weight without prior approval in accordance with R307-1-3.1, UAC. The silt content shall be determined if directed by the executive secretary using the appropriate ASTM method. The silt content is defined as all material passing a #200 U.S. Standard Sieve.

Federal Limitations and Requirements

20. In addition to the requirements of this AO, all provisions of 40 CFR 60, New Source Performance Standards (NSPS)¹ Subparts A and OOO, 40 CFR 60.1 to 60.18 and 40 CFR 60.670 to 60.676 (Standards of Performance for Nonmetallic Mineral Processing Plants) apply to this installation. A copy of the latest 40 CFR 60 Subparts A (section 60.8) and OOO is attached to this document as Appendix A. However, to be in compliance, this facility must operate in accordance with the most current version of 40 CFR 60 applicable to this source.
21. For sources that are subject to NSPS, visible emission observations that are performed during the initial compliance inspection shall consist of 30 observations of six minutes

¹ NSPS = New Source Performance Standards.

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each in accordance with 40 CFR 60.11(b) and 40 CFR 60, Appendix A, Method 9. It is the responsibility of the owner/operator of the source to supply these observations to the executive secretary. A currently certified observer must be used for these observations. Emission points that are subject to the initial observations are:

- A. All crushers
- B. All screens
- C. All conveyor transfer points

Records & Miscellaneous

- 22. All installations and facilities authorized by this AO shall be adequately and properly maintained. Maintenance records shall be maintained while the plant is in operation. All pollution control vendor recommended equipment shall be installed, maintained, and operated.
- 23. The owner/operator shall comply with R307-1-3.5, UAC. This rule addresses emission inventory reporting requirements. (See Appendix B)
- 24. The owner/operator shall comply with R307-1-4.7, UAC. This rule addresses unavoidable breakdown reporting requirements. Any breakdown lasting longer than two hours shall be reported to the executive secretary within three hours of the breakdown if reasonable, but in no case longer than 18 hours after the beginning of the breakdown. During times other than normal office hours, breakdowns for any period longer than two hours shall be initially reported to the Environmental Health Emergency Response Coordinator. Within seven calendar days of the beginning of any breakdown lasting longer than two hours, a written report shall be submitted to the executive secretary. The owner/operator shall calculate/estimate the excess emissions (amount above AO limits) whenever a breakdown occurs. The total of excess emissions per calendar year shall be reported to the executive secretary with the inventory submittal, as directed by the executive secretary. (See Appendix B)
- 25. All records referenced in this AO or in applicable NSPS, which are required to be kept by the owner/operator, shall be made available to the executive secretary or executive secretaries representative upon request and shall include a period of two years ending with the date of the request. All records shall be kept for a period of two years. Records to be kept at this source shall include the following:

| | |
|---------------------------|----------------------------------|
| Operator Training | (Condition number 4) |
| Production rate | (Condition number 8) |
| Maintenance records | (Condition number 22) |
| Emission inventory | (Condition number 23) |
| Upset, breakdown episodes | (Condition number 24) |
| Hours of operation | (Condition number 8) |
| Fugitive emission control | (Condition numbers 11, 13, & 18) |

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Any future modifications to the equipment approved by this order must also be approved in accordance with R307-1-3.1.1, UAC.

The executive secretary shall be notified in writing if the company is sold or changes its name. The notification shall be submitted within 30 days of such action.

This AO in no way releases the owner or operator from any liability for compliance with all other applicable federal, state, and local regulations including the UAC R307.

Annual emissions for this source are currently calculated at the following values:

| | Pollutant | Tons/yr |
|----|------------------------|---------|
| A. | TSP | 26.07 |
| B. | PM ₁₀ | 12.16 |
| C. | SO ₂ | 0.92 |
| D. | NO _x | 10.84 |
| E. | CO | 5.67 |
| F. | VOC | 1.50 |

These calculations are for the purposes of determining the applicability of Prevention of Significant Deterioration, nonattainment area, and Title V source requirements of the UAC R307. They are not to be used for purposes of determining compliance.

In accordance with the requirements of Title V of the 1990 Clean Air Act, the following pollutants may be subject to an operating permit fee. Emissions of the following pollutants from all sources, including pre-November 29, 1969 sources, may be subject to the operating permit fee. Both the fees rate and the class of pollutants are subject to change by State, the federal agencies, or both.

| | Pollutant | Tons/yr |
|----|------------------------|---------|
| A. | PM ₁₀ | 12.16 |
| B. | SO ₂ | 0.92 |
| C. | NO _x | 10.84 |
| D. | VOC | 1.50 |

Approved By:

Ursula K. Trueman
Ursula K. Trueman, Executive Secretary
Utah Air Quality Board